(7)

Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: **Improvements of Asphalting of Ravindranagara 3rd main road & Other roads in Ward no. 13, in Shettyhalli Sub-Division.**

Est .Cost Rs. 20.00 Lakhs

Sl. No	Description of Items	Unit	No.	L.	B.	D	Qty.	Rate	Amount
1	2	3	4	5	6	7	8	9	10
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.. (PWD SR 2014-15, Page No.138, Item No. 19.1)						Cum		
	3rd main road		1	400.00	0.60	0.30	72.00		
	4th mainroad		1	200.00	0.60	0.30	36.00		
	6th cross road		1	200.00	0.60	0.30	36.00		
	8th cross road		1	180.00	0.60	0.30	32.40		
	9th cross road		1	110.00	0.60	0.30	19.80		
							196.20	75.60	**14833.00**
	Basic Rate	70.00							
	Area Weightage 8%	5.60							
		75.60							
2	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 201-15, P.No.154, I No.20.18)						Cum		
			1	400.00	0.60	0.25	60.00		
			1	200.00	0.60	0.25	30.00		
			1	200.00	0.60	0.25	30.00		
			1	180.00	0.60	0.25	27.00		
			1	110.00	0.60	0.25	16.50		
							163.50	1438.56	**235205.00**
	Basic Rate	1,332.00							
	Area Weightage 8%	106.56							
	Total	**1438.56**							
3	Providing and applying primer coat with S.S. Bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2014-15, P.No.157, I No.21.6)						Sqm		

			1	400.00	0.60		240.00		
			1	200.00	0.60		120.00		
			1	200.00	0.60		120.00		
			1	180.00	0.60		108.00		
			1	110.00	0.60		66.00		
							654.00	35.21	**23027.00**
	Basic Rate	32.60							
	Area Weightage 8%	2.61							
	Total	**35.21**							
4	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2014-15, P.No.158, I No.21.11.6)						Cum		
			1	400.00	0.60	0.05	12.00		
			1	200.00	0.60	0.05	6.00		
			1	200.00	0.60	0.05	6.00		
			1	180.00	0.60	0.05	5.40		
			1	110.00	0.60	0.05	3.30		
							32.70	6908.76	**225916.00**
	Basic Rate	6,397.00							
	Area Weightage 8%	511.76							
		6,908.76							
5	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous tratement including cost of all materials, labour, HOM of machineries complete as per specificationsEngineer-in-charge of the work (PWDSR 2014-15, P.No.157, I No.21.20) .						Sqm		
			1	400.00	5.00		2000.00		
			1	200.00	5.00		1000.00		
			1	200.00	5.00		1000.00		
			1	180.00	5.00		900.00		
			1	110.00	5.00		550.00		
							5450.00	3.02	**16481.00**
	Basic Rate	2.80							
	Area Weightage 8%	0.22							
		3.02							

6	Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (exlcuding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications Engineer-in-charge of the work (PWDSR 2014-15, P.No.157, I No.21.7)						Sqm		
			1	400.00	5.00		2000.00		
			1	200.00	5.00		1000.00		
			1	200.00	5.00		1000.00		
			1	180.00	5.00		900.00		
			1	110.00	5.00		550.00		
							5450.00	18.74	**102122.00**
	Basic Rate	17.35							
	Area Weightage 8%	1.39							
		18.74							
7	Providing and laying semi dense bituminous concrete 25 - 30mm compacted thickness with 5% bitumen with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled vibratory and ttandem rollers to achieve the desired compaction as per MoRTH specification clause No. 508 complete in all respects with 80 / 100 grade bitumen with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWDSR 2014-15, P.No.159, I No. 21.20.2)						Cum		
			1	400.00	5.00	0.025	50.00		
			1	200.00	5.00	0.025	25.00		
			1	200.00	5.00	0.025	25.00		
			1	180.00	5.00	0.025	22.50		
			1	110.00	5.00	0.025	13.75		
	Basic Rate	9,122.00					**136.25**	9851.76	**1342302.00**
	Area Weightage 8%	729.76							
		9,851.76							
8	KSRRB 400-2.4: Carriage of mixed materials 10 Kms, For items of Sl.no 4. Rs. 5.20 per cum/km Page no 155/ PWD SR 2014-15								
	Qty.vide item No. 5 + 8	Cum					168.95		
	(10 kms x 5.20)						**168.95**	56.16	**9488.00**
	Basic Rate	52.00							
	Area Weightage 8%	4.16							
		56.16							

9	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 10 Km a)Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b)Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c)Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 62.20 (P.150, I.no.18.57/1, PWD SR 2014-15)								
	Qty Vide Item No=1	Cum					221.94		
	Qty Limited to						221.94	72.71	16136.00
	Basic Rate (Rs.2.0 x 1.28 x 2 kms)	5.12					170.00		12360.00
	Loading and Unloading Charges	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	72.71							1158.00
10	Miscellaneous and other unforseen charges								18000
11	Add Q.C. Charges @ 1.1							Total	2000000.00
	(Rupees Twenty Lakhs Only)								

CERTIFICATE

1 The work sport has been inspected and the work found to be necessary
2 This estimate is prepared as per the PWD S.R of 2014-15
3 The provisions made in estimate are adequate and essential
4 This area comes under BBMP limits

Asst. Engineer
Ward No-13

Asst.Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

JNC-013-15-000006.

ನಂ. CE/DZ/ಕ/S2/14-15 ದಿನಾಂಕ: 29-10-14
ರೂ. 20,00,000/- (ರೂ 2.5 ಲಕ್ಷ ಮಾತ್ರ)
.....ಗಳ
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾತ್ಕಾಲಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
29/10/14
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ. CE/DD/T3/102/14-15 ದಿನಾಂಕ: 29/10/2014
ರೂ. 20.00 Lakhs (Rupees Twenty lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾತ್ಕಾಲಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ
ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೆಂಗಳೂರು

CANCEL

29/10

Chief Engineer
Bruhat Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore.